

DT-6115



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Rudiger Huhn

SERIAL NO.: 10/086,774

FILED: March 1, 2002

FOR: A System for Detecting fluids in a Microfluidic Component

EXAMINER: Donald M. Lair

GROUP: 2858

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22131-1450

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TECHNOLOGY CENTER 2800

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 CFR sections 1.97 and 1.98, applicant respectfully requests that the documents listed on the attached form PTO-1449, be made of record and considered in connection with the examination of this application. Copies of the listed document are enclosed. A translation of the foreign language document(s) is not readily available.

The documents submitted herewith were cited in a German application corresponding to the above-referenced application.

German Publication DE-32 43 839 discloses an apparatus for the level measurement of liquids in containers or the like and which includes a sensor

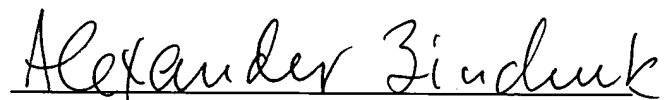
element which dips into liquid and responds to change of the liquid, and also an indicator element (31) which can be controlled by the sensor element and indicates the detected liquid level. For a trouble-free and particularly inexpensive construction of the apparatus, it is proposed to use as the sensor element a radiation conductor (13) which has at least one surface towards the liquid at the desired height to be monitored. A radiation transmitter (16) and a radiation receiver (17) provided, which produce an angled course of the radiation because of reflection at the boundary surface (20). The power of the receiver is indicated in an evaluating display element. In dependence on whether the boundary is wetted or not by the liquid, the fraction of the radiation which, on the one hand, is reflected to the receiver to the other hand, is refracted away from the receiver into the other medium, varies at the boundary surface.

German Publication DE 43 05 924 discloses a device for detecting overfilling of an overflow channel for liquids. The device includes a liquid channel (4) and an overflow channel (5) connected to it in terms of fluid and partially delimited by a plate (9) consisting of transparent material, the channel (5) having allocated to it a transmitter (7) for light and a receiver (8) for this light, the plate (9) making possible a total reflection of the light emitted by the transmitter (7), which light then reaches the receiver (8). A comparator for forming an evaluable measuring signal is connected downstream of the receiver (8).

The device gives good measurement results with all liquids, including colored ones. It is constructed in a compact manner and is insensitive with respect to externally acting influences.

The Commissioner is hereby authorized to charge the fee required under 37 C.F.R. §1.17(p) in the amount of \$180.00 and any further fees which may be required to our Deposit Account No. 50-0955.

Respectfully submitted,


Alexander Zinchuk
Reg. No. 30,541

Dated: December 19, 2003

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 19, 2003.

Alexander Zinchuk

Signature: 



Form PTO-1449

Docket No.: DT-6115

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INFORMATION DISCLOSURE
CITATION IN AN APPLICATION

Applicant(s): Rudiger Huhn, et al

Filing Date: March 1, 2002

Group: 2858

U.S. PATENT DOCUMENTS

Exam. Init.		Document Number	Date	Name	Class	Subclass	Filing Date if appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document Number							Date	COUNTRY	Class	Subclass	TRANSLATION	
													YES	NO
	AL	3	2	4	3	8	3	9	5/1984	Germany				X
	AM	4	3	0	5	9	2	4	1/1994	Germany				X
	AN													
	AO													
	AP													
	AQ													

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	
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EXAMINER		DATE CONSIDERED